

We claim:

1. A peptide that comprises at least two contiguous LHRH decapeptide sequences wherein the amino acid glycine at position 6 of at least one of the constituting LHRH decapeptides is replaced by a dextrorotatory amino acid with a side chain that can be coupled to a carrier compound.

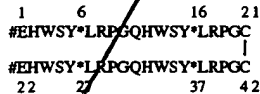
2. A peptide according to claim 1 characterised in that it comprises an amino acid sequence that comprises the structure:



wherein the amino acid * at position 6 or 16 is a dextrorotatory amino acid with a side chain that can be coupled to a carrier compound and the other amino acid * is either glycine or a dextrorotatory amino acid with a side chain that can be coupled to a carrier compound.

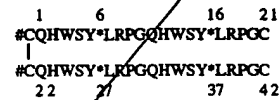
3. Peptides according to claim 1 that are dimerised or multimerised.

4. A peptide according to claim 3 and comprising the structure:



wherein the amino acid * at position 6 or 16 or 27 or 37 is D-lysine or D-glutamine or another dextrorotatory amino acid with a side chain that can be coupled to a carrier compound and the other amino acid * is either glycine or D-lysine or D-glutamine or another dextrorotatory amino acid with a side chain that can be coupled to a carrier compound.

5. A peptide according to claim 3 and having the structure:



wherein the amino acid * at position 6 or 16 or 27 or 37 is D-lysine or D-glutamine or another dextrorotatory amino acid with a side chain that can be coupled to a carrier compound and the other amino acid * is either glycine or D-lysine or D-glutamine or another dextrorotatory amino acid with a side chain that can be coupled to a carrier compound.

6. A composition in which a peptide in accordance with claim 1 is coupled to a carrier compound.

7. A composition in accordance with claim 6 wherein the carrier compound is a protein.

8. A composition in accordance with claim 7 wherein the carrier compound is KLH or ovalbumin.

9. A composition in accordance with claims 1 additionally comprising a mild adjuvant.

10. A composition in accordance with claim 9 wherein the mild adjuvant is an oil phase of a water-in-oil emulsion or a double oil emulsion.

11. A vaccine comprising a composition in accordance to claim 1.

12. A method for inoculating an animal with a vaccine according to claim 11.

13. A method for inoculating an animal with a vaccine according to claim 11 wherein the effective amount is less than about 1 mg.

14. A method to effect one or more reproductive or behavioural characteristics of an animal, characterized in that said animal is vaccinated in accordance with claim 12.

15. A method to immunocastrate a pig, characterized in that said pig is vaccinated in accordance with claim 12.

* * * * *